# Solo Download Instruments Horn ensemble Full Library

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# Introduction

Welcome to the Vienna Symphonic Library, and thank you for purchasing one of our Solo Download Instruments! This document contains the mapping information for the "Full" version of the Vienna Instruments Horn ensemble. You will find in it a comprehensive survey of the articulations/Patches content, a listing of abbreviations, and the mapping list proper which gives details for every Patch, Matrix, and Preset.

#### "Full" Library

As opposed to the "Standard" versions of our Solo Download Instruments, the "Full" versions are identical with the corresponding instruments of a DVD Collection, i.e., they contain exactly the same samples, Patches, Matrices and Presets as the latter without any restrictions.

Installing a Download Instrument's Full version copies that instrument's sample content to a separate folder on your hard disk, so that it is not necessary to keep its Standard version installed – you may either delete it from your hard disk or at least remove it from the Directory Manager's list of activated instruments. In the Vienna Instruments Browser, the path of the Full version will be the same as that of the corresponding DVD Instrument, so that you can still see both versions as separate entries if you keep the Standard version installed.

#### **Data paths and Patch name conventions**

Since the Full versions of Download Instruments conform to the corresponding DVD Instruments, the data paths in your Vienna Instruments browser will be different than those of Standard Download or Special Edition Instruments. For instance, the path of the Standard Download Library of Flute 1 is "02D Flute-1", and all Patches can be found in this folder regardless of the articulation group they belong to. The Patch number is also marked with a "D" so that you immediately know it is a Download Instrument. In the Vienna Special Edition, Flute 1 is located in the folder "11 Flutes" together with the other flutes. Here, the Patch number is marked with an "S". The Full Download of Flute 1 is located in the subfolder "32 Flute" of the section "Woodwind Patches", which again contains subfolders grouping the Patches according to type, e.g., "01 SHORT + LONG NOTES", "02 DYNAMICS", etc. Patch names of the Full Download Library may differ from the corresponding ones of the Standard Download Library.

While Full Download Instruments contain all articulations of the corresponding DVD Instruments, their Patches are not divided into Standard and Extended content. The list of articulations further down which gives a summary of the Library's contents.

Special Patch configurations which sometimes are part of a Standard Download Instrument may be found in a reserved folder called "98 RESOURCES" in the Full Instrument. E.g., Flute 1 Standard contains the Patch "22D FL1 legato-sus"; in Flute 1 Full, this Patch is called "01 FL1\_perf\_leg\_sustain" and is located in the Resources' subfolder "03 Perf Speed variation". (Apart from that, it also contains more samples.) Other articulations that can be found in the Resources folder are isolated dynamics repetitions in the subfolder "01 Perf Rep dyn" – e.g., the five repetitions of a legato crescendo, divided into separate Patches – and extracted velocity layers of sustained notes in the subfolder "02 Long Notes – Single Layer".

#### Patch information

The Patch information includes articulation type, playing range, number of samples used, RAM requirements, the number of velocity layers and alternations, AB switching possibilities, etc., as well as Patch specific information if necessary. Where the type of articulation requires a special mapping (e.g., natural harmonics patches), the mapping layout will be shown in a detailed graphic.

**Major and minor runs** are always mapped to the keys of their scale, as are **arpeggios** to the keys of the broken chord played. **Grace notes** and **mordents** are mapped to their target note, i.e., the note the articulation ends with. Due to their nature, all **upward and downward articulations** (e.g., fixed glissandos and octave runs) have different mapping ranges – the upward movements ending the involved interval below the Patch's upper mapping range, while downward movements end the interval above its lower mapping range. (Please note that not all of the articulations mentioned above may be contained in your Collection.)

The Patch information also lists a Patch's velocity layers in detail. Velocity layer switches generally are the same for patches with the same number of layers but may occasionally be adapted to the instrument's requirements:

Layers	Layer 1	Layer 2	Layer 3	Layer 4	Layer 5	Layer 6
2	1–88	89–127				
3	1–55	56–88	89–127			
4	1–55	56–88	89–108	109-127		
5	1–24	25–55	56–88	89–108	109–127	
6	1–24	25–55	56–88	89–108	109–118	119–127

#### Interval performances

Interval performances are one of the outstanding features of our Vienna Instruments. They allow you to play authentic legato without any programming tricks. In our Silent Stage, all intervals from minor second to the octave were recorded for every instrument – up and down, of course; that makes 24 interval samples per note for one velocity alone! When you load an interval performance Patch and play a line on your keyboard, the software automatically joins the right samples with their interval transitions again, and you hear a perfect legato. By the way, this technique is not only used for legato but also for other articulations like the strings' portamento, marcato, or détaché and spiccato articulations.

Interval performances also contain at least two legato repetitions for every note which alternate automatically whenever you strike a key more than once. There also are preconfigured thresholds for legato and repetition notes: The legato threshold – i.e., the maximum break between notes where legato is played – is 50 ms. Otherwise, a sustained starting note will sound so that you can easily start a new phrase without leaving the legato Patch. For note repetitions, the threshold is 200 ms: a break up to that duration will yield a legato repetition; if the break is longer, a new starting note. But of course, it's mingling legato with other articulations which makes a piece really come alive.

Due to their nature, all interval performances are monophonic; otherwise, the software would have to be able to decide which source note belongs to which target note. To circumvent this, you can open two VI instances of the same instrument on separate MIDI tracks without any additional strain on your RAM.

Note: the Vienna Instruments PRO player software also allows you to play polyphonic Interval performances.

Another variety of interval performance you will come across is the "perf-leg\_sus" Patch. These Patches also contain normal legatos, only the target note of each interval is crossfaded into a looped sustain. They can be used for slower pieces with long notes; however, you should use them with circumspection, since plain legatos sound more lively because they not only render the interval transitions as they were played, but also have different target samples for every interval instead of the same sustained note: When you play, e.g., c-e and then c#-e with normal legato, you will get two different "e" tones; with sus-legato you won't.

# **Matrix** information

Each Matrix listing contains information regarding the Patches used for the Matrix, the number of horizontal and vertical dimensions, and switching properties. A mapping table shows the Cell positions for each of the Matrix' Patches.

**A/B switching** normally is set to A0 for upward/crescendo, and B0 for downward/diminuendo. However, some bass instruments go below that range so that the A/B keys have to be adapted accordingly. For example, the A/B switches for double bass are A0 and A#0 because the instrument's lower range extends to B0.

In order to facilitate working with **MIDI controller switches** like the Modulation wheel, the switching positions are not distributed equally across the controller range if they control more than two Matrix rows or columns; generally, the switching range will be narrower at the extreme positions because they are easy to set, and wider in the middle where it is harder to find the desired setting.

**Speed controller switches** naturally are adjusted to the Patches involved, and have been tested carefully as to their playability. However, if you find that they do not fit your playing, or want to try out other settings, you can change this as well as any other controller's settings at the **Control edit** page, and save the result in your Custom Matrix folder.

#### **Preset information**

The Preset information lists the Matrices used in the Preset as well as its keyswitches. All other information can be gathered from the Matrix and Patch listings, so there's not really much to say here. Please note that the Matrices of a Preset can also be switched with MIDI Program Changes (VI: 101–112; VI PRO: 1–127) instead of keyboard notes, and if you like to keep your keyboard free for playing instead of switching, you can disable Preset keyswitching and only use MIDI Program Changes. Vienna Instruments PRO also allows you to define a MIDI Control for Preset keyswitching.

#### **Abbreviations**

Here's a list of abbreviations in Patch names, which will help you to determine a Patch's content even without the help of the Vienna Instruments browser. Please note that not all of the abbreviations may occur in the manual on hand.

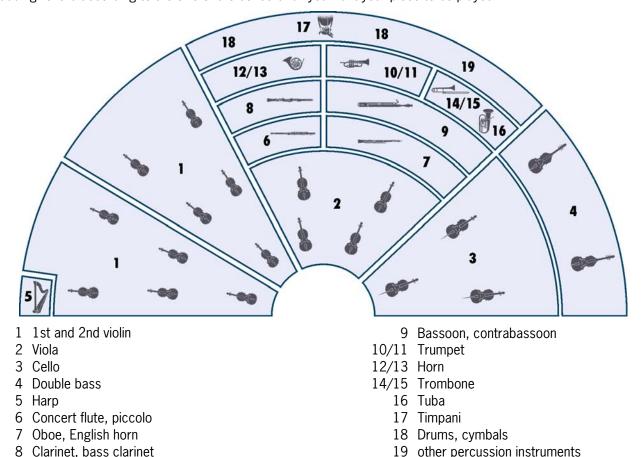
Abbreviation	Meaning	<b>Abbreviation</b>	Meaning
+	faster articulation (runs and	lo	long
	arpeggios)	ma	major
150, 160,	150, 160, BPM (beats per minute)	marc	marcato
1s, 2s,	tone length 1 sec., 2 sec.,	me	medium
acc	accelerando	mi	minor
all	combination of all Patches of a	mord	mordent
	category	mu	muted
arp	arpeggio	muA, muB	muted, variation A/B
blare	"blared" tones (horn)	nA	normal attack
cre	crescendo	noVib	without vibrato
dim	diminuendo	perf-rep	repetition performance
dm	diminished (arpeggios)	por	portato
dyn	dynamics (crescendo and	run	octave run
	diminuendo)	sA	soft attack
dyn5, dyn9	dynamics, 5/9 repetitions	sl	slow
fa	fast	sta, stac	staccato
faT	fast triplets	sto	stopped (horns)
fA	fast attack	str	strong
fA_auto	attack automation (normal/fast	SUS	sustained
	attack)	T	triplets
fast-rep	fast repetitions	tune	"tuning in" articulation
flatter	flutter tonguing	UB	upbeat
fx	effect sound	UB-a1, -a2	1, 2 upbeats
gliss	glissando	v1, v2	1st, 2nd, variation
hA	hard attack	Vib	with (medium) vibrato
leg	legato	Vib-progr	progressive vibrato
li	light	XF	cell crossfade Matrix

# **Articulations**

64 Horns - a4	
01 SHORT + LONG NOTES	Staccato
	Portato short, medium and long
	Sustained, normal, marcato, and blared
02 DYNAMICS	Medium crescendo and diminuendo, 1.5, 2, 3, 4, and 6 sec.
	Strong crescendo and diminuendo, 3, 4, and 6 sec.
	pfp, 4 and 6 sec.
	Fortepiano, sforzato, sforzatissimo
03 FLATTER	Flutter tonguing normal and crescendo
10 PERF INTERVAL	Legato, normal and with sustain crossfading
	Marcato
11 PERF INTERVAL FAST	Legato
	Marcato
12 PERF TRILL	Trills, legato, minor to major 2nd
13 PERF REPETITION	Legato, portato, staccato
	Slow and fast
	Dynamics for all repetitions
14 PERF UPBEAT REPETITION	1 and 2 upbeats, slow and fast, normal and dynamics
15 FAST REPETITION	Staccato, 9 repetitions, 150 to 190 BPM
	Normal and dynamics
16 UPBEAT REPETITION	1 upbeat, 80–130 BPM
	2-3 upbeats, 80-140, 160, and 180 BPM
17 ARPEGGIOS	Arpeggios, staccato
	Diminished, major and minor from C to B key
	Up and down, 2 speeds for all
18 GLISSANDI	Performance glissandos, minor 3rd to octave
	Fixed glissandos, 4th to octave, up and down

#### The orchestra

There are several ways of setting up an orchestra, depending on the era of the piece played, the type of the piece and the instruments it requires, and even on the preference of the conductor. The figure below shows one of the more common setups, which can be taken as a guideline for mixing a composition, properly positioning the instruments in the stereo field and adding reverb according to the size of the concert hall you want your piece to be played in.



#### **Pitch**

For designating pitch, the Vienna Symphonic Library uses International Pitch Notation (IPN), which was agreed upon internationally under the auspices of the Acoustical Society of America. In this system the international standard of A=440 Hz is called A4 and middle C is C4. All pitches are written as capital letters, their respective octave being indicated by a number next to it. The lowest C on the piano is C1 (the A below that is A0), etc.

You can tune your Vienna Instruments to other players, or adjust it to tunings of earlier musical periods by setting the Perform page's Master Tune option within a range of 420 to 460 Hz.

# 64 Horns - a4

#### The instrument

#### **Description**

The French horn in F is a brass wind instrument with a funnel-shaped mouthpiece.

In the 19th century it became the most important wind instrument in the Romantic orchestra. The brass section of the modern orchestra usually uses four horns, especially large sections may even have six or eight horns.

#### Range and notation

The horn in F has a range from B1-F5.

It is notated in F; in bass clef and treble clef it is written a fifth higher than it sounds.

#### **Sound characteristics**

Full, warm, velvety, clear, bright, intense, heroic, distant, mellow, metallic, powerful, expressive, resounding, sonorous. Low notes are most effective played *piano*, when forced they take on a slightly rough tone. Ideal for the performance of thematic tasks.

The notes in the middle register sound mellow, full and resounding.

The high notes are soft as velvet, bright and very intense, brilliant. This characteristic horn sound develops best around C5.

#### **Combination with other instruments**

The horn blends with all the instrument groups in the orchestra better than any other instrument.

Played together with other brass instruments the horn loses its mellow euphony, for cup and funnel-shaped mouthpieces mutually cancel out their characteristic sounds.

Of the woodwinds, the clarinet and bassoon blend very well with the horn.

Strings combined with horns blend into a homogeneous overall sound.

# **Patches**

01 SHORT + LONG NOTES	Range: G2-E5		0
01 HO-4_staccato		Samples: 159	RAM: 9 MB
Staccato		oumproor 200	
3 velocity layers			
4 Alternations			
02 HO-4_portato_short		Samples: 162	RAM: 10 MB
Portato, short		•	
3 velocity layers			
4 Alternations			
03 HO-4_portato_medium		Samples: 215	RAM: 13 MB
Portato, medium			
4 velocity layers			
4 Alternations			
04 HO-4_portato_long		Samples: 162	RAM: 10 MB
Portato, long			
3 velocity layers			
Release samples			
2 Alternations			
11 HO-4_sus		Samples: 162	RAM: 10 MB
Sustained			
3 velocity layers			
Release samples			
12 HO-4_sus_marcato		Samples: 54	RAM: 3 MB
Sustained, marcato			
1 velocity layer			
Release samples			
2 Alternations			
13 HO-4_sus_blare		Samples: 54	RAM: 3 MB
Sustained, blared			
1 velocity layer			
Release samples			
2 Alternations			

64 Horns - a4 / Patches **02 DYNAMICS** Range: G2-E5 01 HO-4\_dyn-me\_1'5s Samples: 108 RAM: 6 MB Medium crescendo and diminuendo, 1.5 sec. 2 velocity layers AB switch: crescendo/diminuendo 02 HO-4\_dyn-me\_2s Samples: 108 RAM: 6 MB Medium crescendo and diminuendo, 2 sec. 2 velocity layers AB switch: crescendo/diminuendo 03 HO-4\_dyn-me\_3s Samples: 108 RAM: 6 MB Medium crescendo and diminuendo, 3 sec. 2 velocity layers AB switch: crescendo/diminuendo 04 HO-4 dyn-me 4s Samples: 108 RAM: 6 MB Medium crescendo and diminuendo, 4 sec. 2 velocity layers AB switch: crescendo/diminuendo 05 HO-4\_dyn-me\_6s Samples: 108 RAM: 6 MB Medium crescendo and diminuendo, 6 sec. 2 velocity layers AB switch: crescendo/diminuendo 11 HO-4 dyn-str 3s Samples: 54 RAM: 3 MB Strong crescendo and diminuendo, 3 sec. 1 velocity layer AB switch: crescendo/diminuendo 12 HO-4\_dyn-str\_4s Samples: 54 RAM: 3 MB Strong crescendo and diminuendo, 4 sec. 1 velocity layer AB switch: crescendo/diminuendo 13 HO-4\_dyn-str\_6s Samples: 54 RAM: 3 MB Strong crescendo and diminuendo, 6 sec. 1 velocity layer AB switch: crescendo/diminuendo 21 HO-4\_pfp\_4s Samples: 14 RAM: 1 MB

# 1 velocity layer

22 HO-4\_pfp\_6s Samples: 14 RAM: 1 MB

Crescendo-diminuendo, 6 sec.

Crescendo-diminuendo, 4 sec.

1 velocity layer

Samples: 27 31 HO-4\_fp RAM: 1 MB Fortepiano 1 velocity layer 2 Alternations 32 HO-4 sfz Samples: 27 RAM: 1 MB Sforzato 1 velocity layer 2 Alternations 33 HO-4 sffz Samples: 27 RAM: 1 MB Sforzatissimo 1 velocity layer 2 Alternations

O3 FLATTER

Range: G2–E5

O1 HO-4\_flatter

Flutter tonguing
1 velocity layer
Release samples

O2 HO-4\_flatter\_cre

Flutter tonguing, crescendo
1 velocity layer

**10 PERF INTERVAL** Range: G2-D5 01 HO-4\_perf-legato Samples: 512 **RAM: 32 MB** Legato 2 velocity layers Release samples 02 HO-4\_perf-legato\_sus Samples: 570 **RAM: 35 MB** Legato Sustain crossfading 4 velocity layers Release samples 03 HO-4\_perf-marcato Samples: 664 **RAM: 41 MB** Marcato 2 velocity layers Release samples

11 PERF INTERVAL FAST Range: G2-D5



01 HO-4\_perf-legato\_fa

Legato, fast 2 velocity layers Release samples

02 HO-4\_perf-marcato\_fa

Marcato, fast 2 velocity layers Release samples Samples: 760

Samples: 632

**RAM: 47 MB** 

**RAM: 39 MB** 

12 PERF TRILL

Range: G2-D5

01 HO-4 perf-trill

Performance trills, legato, minor to major 2nd 2 velocity layers Release samples Samples: 1140

Samples: 210

Samples: 210

Samples: 378

Samples: 378

Samples: 378

**RAM: 71 MB** 

13 PERF REPETITION

Range: G2-E5

1

**RAM: 13 MB** 

**RAM: 13 MB** 

**RAM: 23 MB** 

01 HO-4\_perf-rep\_leg-sl

Legato, slow 3 velocity layers

02 HO-4\_perf-rep\_leg-fa

Legato, fast 3 velocity layers

03 HO-4\_perf-rep\_por-sl

Portato, slow 3 velocity layers

04 HO-4 perf-rep por-fa

Portato, fast 3 velocity layers

05 HO-4\_perf-rep\_sta-sl

Staccato, slow 3 velocity layers

06 HO-4\_perf-rep\_sta-fa

Staccato, fast 3 velocity layers

Samples: 378

RAM: 23 MB

**RAM: 23 MB** 

**RAM: 23 MB** 

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Vienna Instruments Horn ensemble - DL-Full

64 Horns - a4 / Patches 21 HO-4\_perf-rep\_dyn5\_leg-sl Samples: 140 RAM: 8 MB Legato dynamics, slow, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo 22 HO-4\_perf-rep\_dyn5\_leg-fa Samples: 140 RAM: 8 MB Legato dynamics, fast, 5 repetitions 1 velocity layer AB switch: crescendo/diminuendo 23 HO-4 perf-rep dyn9 por-sl Samples: 252 **RAM: 15 MB** Portato dynamics, slow, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo 24 HO-4 perf-rep dyn9 por-fa Samples: 252 **RAM: 15 MB** Portato dynamics, fast, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo 25 HO-4\_perf-rep\_dyn9\_sta-sl Samples: 252 **RAM: 15 MB** Staccato dynamics, slow, 9 repetitions 1 velocity layer AB switch: crescendo/diminuendo

Samples: 252

**RAM: 15 MB** 

14 PERF UPBEAT REPETITION	Range: G2-E5		000
01 HO-4_perf-rep_UB-a1_sl		Samples: 112	RAM: 7 MB
1 upbeat, slow		-	
2 velocity layers			
2 tolools layers			
02 HO-4_perf-rep_UB-a2_sl		Samples: 112	RAM: 7 MB
2 upbeats, slow			
2 velocity layers			
03 HO-4_perf-rep_UB-a1_fa		Samples: 112	RAM: 7 MB
1 upbeat, fast			
2 velocity layers			
2 10.00.0, 10,0.0			
04 HO-4_perf-rep_UB-a2_fa		Samples: 112	RAM: 7 MB
2 upbeats, fast			
2 velocity layers			

26 HO-4\_perf-rep\_dyn9\_sta-fa

AB switch: crescendo/diminuendo

1 velocity layer

Staccato dynamics, fast, 9 repetitions

64 Horns - a4 / Patches

11 HO-4 perf-rep dyn4 UB-a1 sl

1 upbeat, slow, dynamics

4 repetitions

1 velocity layer

AB switch crescendo/diminuendo

12 HO-4 perf-rep dyn4 UB-a2 sl

2 upbeats, slow, dynamics

4 repetitions

1 velocity layer

AB switch crescendo/diminuendo

13 HO-4 perf-rep dyn4 UB-a1 fa

1 upbeat, fast, dynamics

4 repetitions

1 velocity layer

AB switch crescendo/diminuendo

14 HO-4\_perf-rep\_dyn4\_UB-a2\_fa

2 upbeats, fast, dynamics

15 FAST REPETITION

4 repetitions

1 velocity layer

AB switch crescendo/diminuendo

Range: G2-E5

01 HO-4\_fast-rep\_150 (160/170/180/190)

Fast repetitions: 150-190 BPM

2 velocity layers Release samples

11 HO-4\_fast-rep\_150\_dyn (160/170/180/190)

Fast repetitions

Dynamics, 150–190 BPM

1 velocity layer

AB switch: crescendo/diminuendo

#### **16 UPBEAT REPETITION**

A Single Upbeat Range: G2-E5

01 HO-4\_UB-a1\_80 (90/100/110/120/130)

1 upbeat, 80-130 BPM

3 velocity layers

Samples: 112

RAM: 7 MB

Samples: 112

RAM: 7 MB

Samples: 112

RAM: 7 MB

Samples: 112

Samples: 56

Samples: 28

Samples: 81

RAM: 7 MB

RAM: 3 MB

RAM: 1 MB

RAM: 5 MB



Samples: 81

Samples: 81

Samples: 56

B Double Upbeats Range: G2–E5



RAM: 5 MB

RAM: 5 MB

#### 01 HO-4\_UB-a2\_80 (90/100/110/120/130/140/160/180)

2 upbeats, 80-140, 160, and 180 BPM

3 velocity layers

C Triple Upbeats Range: G2-E5



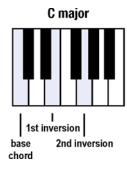
#### 01 HO-4\_UB-a3\_80 (90/100/110/120/130/140/160/180)

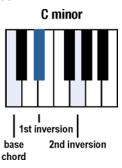
3 upbeats, 80-140, 160, and 180 BPM

3 velocity layers

#### 17 ARPEGGIOS

Please note that the playing ranges vary with the key of the Patch used. For playing ranges and mappings for each key, please see the appendix.





#### Staccato diminished



RAM: 3 MB

01 HO-4\_arp-sta\_dm

Arpeggios, staccato Diminished 2 velocity layers AB switch: up/down

#### Staccato diminished fast



01 HO-4\_arp-sta+\_dm Range: A2-E5 Samples: 56 RAM: 3 MB

Range: A2-E5

Arpeggios, staccato, fast Diminished 2 velocity layers AB switch: up/down

Samples: 20

Samples: 20

Samples: 20

Samples: 20

Samples: 244

Samples: 22

#### Staccato major



RAM: 1 MB

#### 01 HO-4\_arp-sta\_C-ma (through to B-ma)

Arpeggios, staccato C to B major 2 velocity layers AB switch: up/down

#### Staccato major fast



RAM: 1 MB

#### 01 HO-4\_arp-sta+\_C-ma (through to B-ma)

Arpeggios, staccato, fast C to B major 2 velocity layers AB switch: up/down

#### Staccato minor



RAM: 1 MB

#### 01 HO-4\_arp-sta\_C-mi (through to B-mi)

Arpeggios, staccato C to B minor 2 velocity layers AB switch: up/down

#### Staccato minor fast



RAM: 1 MB

#### 01 HO-4\_arp-sta\_C-mi+ (through to B-mi)

Arpeggios, staccato, fast C to B minor 2 velocity layers AB switch: up/down

#### 18 GLISSANDI



**RAM: 15 MB** 

RAM: 1 MB

Please note that fixed glissandos have different up and down ranges.

Glissando, minor 3rd to octave

2 velocity layers

01 HO-4\_perf-gliss

Release samples

11 HO-4\_gliss-5

Glissando, 4th 1 velocity layer AB switch: up/down Range: G2-D5

RAM: 1 MB

Samples: 20

Samples: 20

Samples: 18

Samples: 18

Samples: 16

Samples: 16

Samples: 16

Samples: 14

12 HO-4\_gliss-6

Glissando, diminished 5th

1 velocity layer

AB switch: up/down

13 HO-4\_gliss-7

Glissando, 5th 1 velocity layer

AB switch: up/down

14 HO-4\_gliss-8

Glissando, minor 6th 1 velocity layer

AB switch: up/down

15 HO-4\_gliss-9

Glissando, major 6th 1 velocity layer

AB switch: up/down

16 HO-4\_gliss-10

Glissando, minor 7th 1 velocity layer AB switch: up/down

17 HO-4\_gliss-11

Glissando, major 7th 1 velocity layer AB switch: up/down

18 HO-4 gliss-12

Glissando, octave 1 velocity layer AB switch: up/down

98 RESOURCES

Slow legato Interval Performance

Isolated dynamics repetitions: Legato slow and fast, portato, staccato

Single layer long notes

01 Perf Rep dyn

01 HO-4\_rep\_cre5\_leg-sl-1 (2/3/4/5)

Extracted repetitions Legato, slow, crescendo, 1st to 5th note

1 velocity layer

Vienna Instruments Horn ensemble - DL-Full

Range: G2-E5

		0111	orns - a4 / Fatches
O1 HO-4_rep_dim5_leg-sl-1 (2/3/4/5)  Extracted repetitions Legato, slow, diminuendo, 1st to 5th note 1 velocity layer		Samples: 14	RAM: 1 MB
O2 HO-4_rep_cre5_leg-fa-1 (2/3/4/5)  Extracted repetitions Legato, fast, crescendo, 1st to 5th note 1 velocity layer		Samples: 14	RAM: 1 MB
O2 HO-4_rep_dim5_leg-fa-1 (2/3/4/5)  Extracted repetitions Legato, fast, diminuendo, 1st to 5th note 1 velocity layer		Samples: 14	RAM: 1 MB
03 H0-4_rep_cre9_por-1 (2/3/4/5/6/7/8/9) Extracted repetitions: Portato, crescendo, 1st to 9th r 1 velocity layer	note	Samples: 14	RAM: 1 MB
03 HO-4_rep_dim9_por-1 (2/3/4/5/6/7/8/9) Extracted repetitions: Portato, diminuendo, 1st to 9th 1 velocity layer	note	Samples: 14	RAM: 1 MB
<b>04 HO-4_rep_cre9_sta-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Staccato, crescendo, 1st to 9th 1 velocity layer	n note	Samples: 14	RAM: 1 MB
<b>04 HO-4_rep_dim9_sta-1 (2/3/4/5/6/7/8/9)</b> Extracted repetitions: Staccato, diminuendo, 1st to 9t 1 velocity layer	th note	Samples: 14	RAM: 1 MB
02 Long Notes - Single Layer	Range: G2-E5		
O1 HO-4_sus-p Sustained, piano 1 velocity layer Release samples		Samples: 54	RAM: 3 MB
O2 HO-4_sus-mf Sustained, mezzoforte 1 velocity layer Release samples		Samples: 54	RAM: 3 MB
O3 HO-4_sus-f Sustained, forte 1 velocity layer Release samples		Samples: 54	RAM: 3 MB

03 Perf Speed variation

Range: G2-D5

01 HO-4\_perf-legato\_slow Samples: 543 **RAM: 33 MB** 

Interval performances Legato, slow 2 velocity layers Release samples

#### 99 RELEASE

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

RAM: 42 MB

**RAM: 46 MB** 

RAM: 60 MB

**RAM: 97 MB** 

Samples: 673

Samples: 747

Samples: 966

Samples: 1557

#### **Matrices**

#### Matrix - LEVEL 1

#### L1 HO-4 Articulation Combi

Single note articulations

Staccato, portato short, sustained, marcato crescendo-diminuendo 4 and 6 sec., fortepiano and sforzato, flutter tonguing normal and crescendo

**Matrix switches:** Horizontal: Keyswitches, C1–E1

Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
V1	staccato	sustained	pfp 4s.	fp	flutter
V2	port. short	marcato	pfp 6s.	sfz	flutter cres.

#### L1 HO-4 Perf-Legato Speed

Interval performances Legato slow, normal, and fast Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

#### L1 HO-4 Perf-Repetitions Combi

Repetition performances Legato slow Portato slow Staccato slow

Matrix switches: Vertical: Modwheel, 3 zones

	repetitions	
V1	legato slow	
V2	portato slow	
V3	staccato slow	

#### Matrix - LEVEL 2 A - Advanced

#### 01 HO-4 Perf-Universal

Interval performances Legato slow, normal, and fast Marcato normal and fast Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

Vertical:	Modwheel,	2	zones

	H1	H2	H3
legato	slow	normal	fast
marcato	normal	normal	fast

64 Horns - a4 / Matrices

**RAM: 71 MB** 

**RAM: 47 MB** 

**RAM: 46 MB** 

**RAM: 54 MB** 

**RAM: 13 MB** 

Samples: 1140

Samples: 752

Samples: 747

Samples: 864

Samples: 216

#### 02 HO-4 Perf-Trill Speed

Multi interval performances

Legato and trills

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
V1	legato	trills

#### 03 HO-4 Short+Long notes

Single notes

Staccato, portato short and medium Sustained normal, marcato, and blared

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1
V1	staccato	port. short	port.med.	sustained
V2	%	%	%	marcato
V3	%	%	%	blared

#### Matrix - LEVEL 2 B - Standard

#### 11 HO-4 Perf-Legato Speed

Interval performances

Legato slow, normal, and fast Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
legato	slow	normal	fast

#### 12 HO-4 Perf-Marcato Speed

Interval performances^mMarcato normal and fast

Monophonic, Speed controller

Matrix switches: Horizontal: Speed, 2 zones

	H1	H2
marcato	normal	fast

#### 13 HO-4 Short notes Samples: 698 RAM: 43 MB

Single notes

Staccato, portato short, medium, and long

**Matrix switches:** Horizontal: Keyswitches, C1–D#1

	C1	C#1	D1	D#1
V1	staccato	port.short	port.medium	port.long

#### 14 HO-4 Long notes - All

Single notes

Sustained normal, marcato, and blared

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
sustained	normal	marcato	blared

RAM: 25 MB

**RAM: 33 MB** 

**RAM: 107 MB** 

**RAM: 84 MB** 

Samples: 405

Samples: 541

Samples: 1722

Samples: 1344

#### 15 HO-4 Dynamics - Small

**Dynamics** 

Medium crescendo and diminuendo, 2, 3, and 4 sec.

Fortepiano, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C1–D1

Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
fp	%	%	%
sfz	%	%	%
sffz	%	%	%

#### 16 HO-4 Dynamics - Large

**Dynamics** 

Medium crescendo and diminuendo, 2, 3, and 4 sec.

Strong crescendo and diminuendo, 3 and 4 sec.

Crescendo-diminuendo, 4 and 6 sec.

Fortepiano, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C1–D1 Vertical: Modwheel, 4 zones

	C1	C#1	D1
dyn.medium	2 sec.	3 sec.	4 sec.
dyn.strong	3 sec.	3 sec.	4 sec.
pfp	4 sec.	4 sec.	6 sec.
fp/sfz/sffz	fp	sfz	sffz

17 HO-4 Flatter Samples: 81 RAM: 5 MB

Flutter tonguing

Normal, crescendo, and normal/crescendo with Cell crossfading

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
flutter	normal	crescendo	Cell XF

#### Matrix - LEVEL 2 C - Repetitions

#### 31 HO-4 Perf-Repetitions - Combi

Repetition performances

Slow legato, slow and fast portato, slow and fast staccato

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
V1	legato slow	portato slow	portato fast	staccato slow	staccato fast

#### 32 HO-4 Perf-Repetitions - Speed

Repetition performances

Slow legato, slow and fast portato, slow staccato

Speed controller

Matrix switches: Horizontal: Speed, 4 zones

	H1	H2	H3	H4
V1	legato slow	portato slow	portato fast	staccato slow

RAM: 10 MB

**RAM: 28 MB** 

RAM: 30 MB

**RAM: 45 MB** 

**RAM: 45 MB** 

**RAM: 121 MB** 

Samples: 168

Samples: 448

Samples: 486

Samples: 729

Samples: 729

Samples: 1944

#### 33 HO-4 Fast-Repetitions

Fast repetitions: Staccato, 150-190 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
speed/BPM	150	160	170	180	190

#### 34 HO-4 Perf Upbeat Repetitions

Repetition performances 1 and 2 upbeats, slow and fast

**Matrix switches:** Horizontal: Keyswitches, C1–C#1 Vertical: Modwheel, 2 zones

	C1	C#1
1 upbeat	slow	fast
2 upbeats	slow	fast

#### 35 HO-4 Upbeats a1

Repetitions: 1 upbeat, 80-130 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	80	90	100	110	120	130

#### 36 HO-4 Upbeats a2

Repetitions: 2 upbeats, 80–140, 160, and 180 BPM **Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	80	90	100	110	120	130	140	160	180

#### 37 HO-4 Upbeats a3

Repetitions: 3 upbeats, 80–140, 160, and 180 BPM **Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
speed/BPM	90	100	110	120	130	140	160	180	200

#### 38 HO-4 Upbeats all

Repetitions: 1-3 upbeats, 80-140, 160, and 180 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
1 upbeat	80	90	100	110	120	130	130	130	130
2 upbeats	80	90	100	110	120	130	140	160	180
3 upbeats	80	90	100	110	120	130	140	160	180

RAM: 7 MB

RAM: 7 MB

RAM: 6 MB

RAM: 6 MB

**RAM: 17 MB** 

**RAM: 17 MB** 

Samples: 112

Samples: 112

Samples: 104

Samples: 104

Samples: 272

Samples: 272

#### Matrix - LEVEL 2 D - Scale+Phrase

#### 51 HO-4 Arpeggios-staccato - Major

Arpeggios, staccato, C to B major

AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj.	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В

#### 52 HO-4 Arpeggios-staccato - Major+

Arpeggios, staccato fast, C to B major

AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato maj. fast	С	C#	D	D#	E	F	F#	G	G#	А	A#	В

#### 53 HO-4 Arpeggios-staccato - Minor

Arpeggios, staccato, C to B minor

AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	С	C#	D	D#	Ε	F	F#	G	G#	Α	A#	В

#### 54 HO-4 Arpeggios-staccato - Minor+

Arpeggios, staccato fast, C to B minor

AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
staccato min.	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
fast												

#### 55 HO-4 Arpeggios-staccato - All

Arpeggios, staccato, C to B major and minor, diminished

AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
diminished	%	%	%	%	%	%	%	%	%	%	%	%

#### 56 HO-4 Arpeggios-staccato - All+

Arpeggios, staccato fast, C to B major and minor, diminished

AB switch up/down

**Matrix switches:** Horizontal: Keyswitches, C1–B1 Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1	A1	A#1	B1
major	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
minor	С	C#	D	D#	Е	F	F#	G	G#	Α	A#	В
diminished	%	%	%	%	%	%	%	%	%	%	%	%

RAM: 4 MB

RAM: 4 MB

RAM: 7 MB

RAM: 7 MB

RAM: 8 MB

**RAM: 15 MB** 

Samples: 70

Samples: 70

Samples: 126

Samples: 126

Samples: 140

Samples: 252

#### Matrix - LEVEL 2 E - Keyswitch Vel

### 71 HO-4 Legato slow - cre5

Slow legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

#### 72 HO-4 Legato fast - cre5

Fast legato notes: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

#### 73 HO-4 Portato - cre9

Portato notes: Crescendo, keyswitch velocity Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

#### 74 HO-4 Staccato - cre9

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

Ī		C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
Ī	velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

#### 75 HO-4 Combi - cre5

Slow and fast legato: Crescendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

#### 76 HO-4 Combi - cre9

Portato and staccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

RAM: 4 MB

RAM: 4 MB

RAM: 7 MB

RAM: 7 MB

RAM: 8 MB

**RAM: 15 MB** 

Samples: 70

Samples: 70

Samples: 126

Samples: 126

Samples: 140

Samples: 252

#### 77 HO-4 Legato slow - dim5

Slow legato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

#### 78 HO-4 Legato fast - dim5

Fast legato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

#### 79 HO-4 Portato - dim9

Portato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

#### 80 HO-4 Staccato - dim9

Staccato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

#### 81 HO-4 Combi - dim5

Slow and fast legato: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1
legato slow	1st	2nd	3rd	4th	5th
legato fast	1st	%	%	%	%

#### 82 HO-4 Combi - dim9

Portato and staccato: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

**RAM: 140 MB** 

**RAM: 289 MB** 

Samples: 2251

Samples: 4639

#### **Presets**

#### **HO-4 VSL Preset Level 1**

L1 HO-4 Perf-Legato Speed

L1 HO-4 Articulation Combi

L1 HO-4 Perf-Repetitions Combi

Preset keyswitches: C6-D6

#### **HO-4 VSL Preset Level 2**

01 HO-4 Perf-Universal

02 HO-4 Perf-Trill Speed

L1 HO-4 Articulation Combi

31 HO-4 Perf-Repetitions - Combi

76 HO-4 Combi - cre9

Preset keyswitches: C6-E6

# 64 Horns - a4 stopped

#### **Patches**

O1 SHORT + LONG NOTES

Range: A#1-D5

O1 HO-4\_sto\_staccato
Staccato
3 velocity layers
2 Alternations

Samples: 114 RAM: 7 MB

Sustained
3 velocity layers

02 DYNAMICS Range: A#1-D5

**e** <>

RAM: 4 MB

RAM: 4 MB

RAM: 2 MB

RAM: 2 MB

RAM: 1 MB

Samples: 76

Samples: 76

Samples: 38

Samples: 38

Samples: 19

01 HO-4\_sto\_dyn-me\_1'5s

Medium crescendo and diminuendo, 1.5 sec.

2 velocity layers

Release samples

AB switch: crescendo/diminuendo

02 HO-4\_sto\_dyn-me\_2s

Medium crescendo and diminuendo, 2 sec.

2 velocity layers

AB switch: crescendo/diminuendo

11 HO-4\_sto\_dyn-str\_3s

Strong crescendo and diminuendo, 3 sec. 1 velocity layer

AB switch: crescendo/diminuendo

12 HO-4\_sto\_dyn-str\_4s

Strong crescendo and diminuendo, 4 sec.

1 velocity layer

AB switch: crescendo/diminuendo

21 HO-4\_sto\_fp

Fortepiano

1 velocity layer

22 HO-4\_sto\_sfz Samples: 19 RAM: 1 MB

Sforzato

23 HO-4\_sto\_sffz Samples: 19 RAM: 1 MB

Sforzatissimo 1 velocity layer

10 PERF INTERVAL Range: A#1-D5

Samples: 465 RAM: 29 MB

Legato

1 velocity layer

Release samples

01 HO-4 sto perf-legato

02 HO-4\_sto\_perf-legato\_sus Samples: 486 RAM: 30 MB

Legato

Sustain crossfading

3 velocity layers

Release samples

11 PERF REPETITION Range: A#1-D5

01 HO-4\_sto\_perf-rep\_leg
Legato

Samples: 190 RAM: 11 MB

2 velocity layers

02 HO-4\_sto\_perf-rep\_por Samples: 342 RAM: 21 MB

Portato

2 velocity layers

03 HO-4\_sto\_perf-rep\_sta Samples: 342 RAM: 21 MB

Staccato

2 velocity layers

21 HO-4\_sto\_perf-rep\_dyn5\_leg Samples: 190 RAM: 11 MB

Legato dynamics, 5 repetitions

1 velocity layer

AB switch: crescendo/diminuendo

22 HO-4\_sto\_perf-rep\_dyn9\_por Samples: 342 RAM: 21 MB

Portato dynamics, 9 repetitions

1 velocity layer

AB switch: crescendo/diminuendo

23 HO-4 sto perf-rep dyn9 sta Samples: 342 RAM: 21 MB

Staccato dynamics, 9 repetitions

1 velocity layer

AB switch: crescendo/diminuendo

#### 12 FAST REPETITION Range: A#1-D5



RAM: 4 MB

01 HO-4\_sto\_fast-rep\_140 (150/160/170/180/190)

Fast repetitions: 140-190 BPM

2 velocity layers Release samples

06 HO-4\_sto\_fast-rep\_140\_dyn (150/160/170/180/190)

Fast repetitions: Dynamics, 140–190 BPM

1 velocity layer

Samples: 38

Samples: 38

Samples: 38

Samples: 76

RAM: 2 MB

#### 13 UPBEAT REPETITION

A Single Upbeat Range: A#1-D5

RAM: 2 MB

RAM: 2 MB

01 HO-4\_sto\_UB-a1\_90 (100/110/120/130/140)

1 upbeat, 90-140 BPM

2 velocity layers

B Double Upbeats Range: A#1-D5



01 HO-4\_sto\_UB-a2\_90 (100/110/120/130/140)

2 upbeats, 90-140 BPM

2 velocity layers

C Triple Upbeats Range: A#1-D5



01 HO-4\_sto\_UB-a3\_90 (100/110/120/130/140)

3 upbeats, 90-140 BPM

2 velocity layers

Samples: 38

Samples: 19

RAM: 2 MB

RAM: 1 MB

#### 98 RESOURCES

Isolated dynamics repetitions: Legato, portato, and staccato

Single layer long notes

01 Perf Rep dyn Range: A#1–D5

01 HO-4\_sto\_rep\_cre5\_leg-1 (2/3/4/5)

Extracted repetitions Legato, crescendo, 1st to 5th note

1 velocity layer

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RAM: 1 MB

Samples: 19

# Extracted repetitions Legato, diminuendo, 1st to 5th note 1 velocity layer O2 HO-4\_sto\_rep\_cre9\_por-1 (2/3/4/5/6/7/8/9) Extracted repetitions: Portato, crescendo, 1st to 9th note 1 velocity layer O2 HO-4\_sto\_rep\_dim9\_por-1 (2/3/4/5/6/7/8/9) Extracted repetitions: Portato, diminuendo, 1st to 9th note 1 velocity layer

03 HO-4\_sto\_rep\_cre9\_sta-1 (2/3/4/5/6/7/8/9) Samples: 19 RAM: 1 MB Extracted repetitions: Staccato, crescendo, 1st to 9th note

1 velocity layer

01 HO-4\_sto\_rep\_dim5\_leg-1 (2/3/4/5)

03 HO-4\_sto\_rep\_dim9\_sta-1 (2/3/4/5/6/7/8/9) Samples: 19 RAM: 1 MB Extracted repetitions: Staccato, diminuendo, 1st to 9th note

1 velocity layer

02 Long Notes - Single Layer	Range: A#1-D5		
01 HO-4_sto_sus-p		Samples: 38	RAM: 2 MB
Sustained, piano 1 velocity layer			
Release samples			
02 HO-4_sto_sus-mf		Samples: 38	RAM: 2 MB
Sustained, mezzoforte 1 velocity layer			
Release samples			
03 HO-4_sto_sus-f		Samples: 38	RAM: 2 MB
Sustained, forte			
1 velocity layer			

#### 99 RELEASE

Release samples

This section contains release samples for various patches of the other sections. Please do not try to load them into a Vienna Instruments matrix – you will not be able to hear anything when you try to play them.

RAM: 35 MB

**RAM: 14 MB** 

**RAM: 13 MB** 

**RAM: 54 MB** 

**RAM: 54 MB** 

Samples: 560

Samples: 228

Samples: 209

Samples: 874

Samples: 874

#### **Matrices**

#### Matrix - LEVEL 2 B - Standard

#### 11 HO-4\_sto Perf-Legato

Interval performances

Legato normal and with sustain crossfading

Monophonic

Matrix switches: Keyswitches, C1–C#1

	C1	C#1	
legato	normal	sus-XF	

#### 12 HO-4\_sto Short + Long notes

Single notes: Staccato and sustained

**Matrix switches:** Horizontal: Keyswitches, C1–C#1

	C1	C#1
V1	staccato	sustained

#### 13 HO-4\_sto Dynamics

**Dynamics** 

Medium crescendo and diminuendo 2 sec., strong crescendo and diminuendo 3 and 4 sec.

Fortepiano, sforzato, sforzatissimo

**Matrix switches:** Horizontal: Keyswitches, C1–D1

,									
	C1	C#1	D1						
cres/dim	med. 2 sec.	str. 3 sec.	str. 4 sec.						
fp	%	%	%						
sfz	%	%	%						
sffz	%	%	%						

Vertical: Modwheel, 4 zones

#### Matrix - LEVEL 2 C - Repetitions

#### 31 HO-4\_sto Perf-Repetitions - Combi

Repetition performances Legato, portato, and staccato

**Matrix switches:** Horizontal: Keyswitches, C1–D1

	C1	C#1	D1
V1	legato	portato	staccato

#### 32 HO-4\_sto Perf-Repetitions - Speed

Repetition performances Legato, portato, and staccato Speed controller

Matrix switches: Horizontal: Speed, 3 zones

	H1	H2	H3
V1	legato	portato	staccato

**RAM: 16 MB** 

**RAM: 14 MB** 

**RAM: 14 MB** 

**RAM: 14 MB** 

**RAM: 38 MB** 

RAM: 5 MB

**RAM: 10 MB** 

Samples: 266

Samples: 228

Samples: 228

Samples: 228

Samples: 612

Samples: 95

Samples: 171

#### 33 HO-4 sto Fast-Repetitions

Fast repetitions: Staccato, 140-190 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	140	150	160	170	180	190

#### 35 HO-4\_sto Upbeats a1

Repetitions: 1 upbeat, 90-140 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	90	100	110	120	130	140

#### 36 HO-4\_sto Upbeats a2

Repetitions: 2 upbeats, 90-140 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	90	100	110	120	130	140

#### 37 HO-4\_sto Upbeats a3

Repetitions: 3 upbeats, 90-140 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–F1

	C1	C#1	D1	D#1	E1	F1
speed/BPM	90	100	110	120	130	140

#### 38 HO-4\_sto Upbeats all

Repetitions: 1-3 upbeats, 90-140 BPM

**Matrix switches:** Horizontal: Keyswitches, C1–F1 Ve

Vertical: Modwheel, 3 zones

	C1	C#1	D1	D#1	E1	F1
1 upbeat	90	100	110	120	130	140
2 upbeats	90	100	110	120	130	140
3 upbeats	90	100	110	120	130	140

### Matrix - LEVEL 2 E - Keyswitch Vel

#### 71 HO-4\_sto Legato - cre5

Legato notes: Crescendo, keyswitch velocity Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

#### 72 HO-4 sto Portato - cre9

Portato notes: Crescendo, keyswitch velocity Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

RAM: 10 MB

RAM: 21 MB

RAM: 5 MB

**RAM: 10 MB** 

RAM: 10 MB

**RAM: 21 MB** 

Samples: 171

Samples: 342

Samples: 95

Samples: 171

Samples: 171

Samples: 342

#### 73 HO-4 sto Staccato - cre9

Staccato notes: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

#### 74 HO-4 sto Combi - cre9

Portato and staccato: Crescendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

#### 75 HO-4 sto Legato - dim5

Legato notes: Diminuendo, keyswitch velocity

Keyswitches control 5 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–E1

	C1	C#1	D1	D#1	E1
velocity	1st	2nd	3rd	4th	5th

#### 76 HO-4 sto Portato - dim9

Portato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

Ī		C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
Ī	velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

#### 77 HO-4 sto Staccato - dim9

Staccato notes: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

**Matrix switches:** Horizontal: Keyswitches, C1–G#1

		C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
,	velocity	1st	2nd	3rd	4th	5th	6th	7th	8th	9th

#### 78 HO-4 sto Combi - dim9

Portato and staccato: Diminuendo, keyswitch velocity

Keyswitches control 9 dynamic steps

Matrix switches: Horizontal: Keyswitches, C1–G#1 Vertical: Modwheel, 2 zones

	C1	C#1	D1	D#1	E1	F1	F#1	G1	G#1
portato	1st	2nd	3rd	4th	5th	6th	7th	8th	9th
staccato	1st	%	%	%	%	%	%	%	%

**RAM: 118 MB** 

Samples: 1890

#### **Presets**

#### HO-4\_sto VSL Preset Level 2

11 HO-4\_sto Perf-Legato

11 HO-4\_sto Perf-Legato

12 HO-4\_sto Short + Long notes

31 HO-4\_sto Perf-Repetitions - Combi

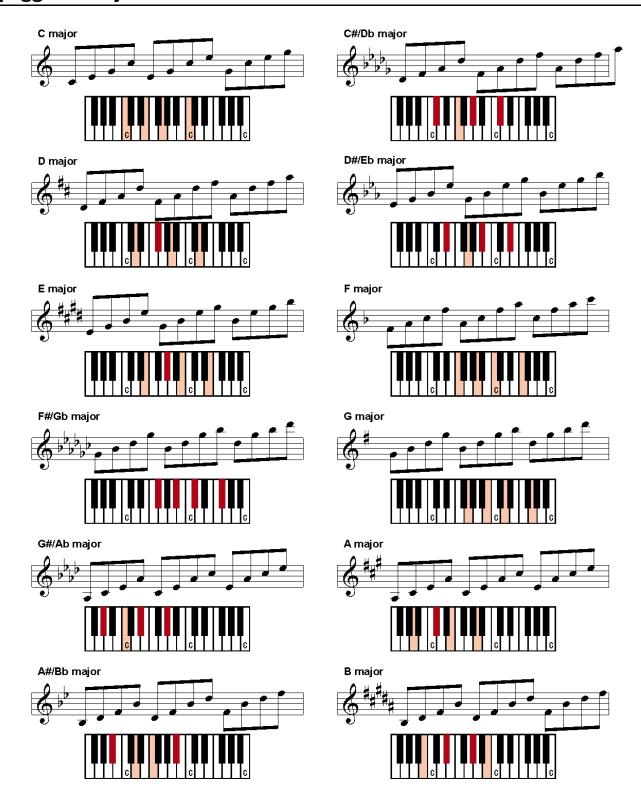
74 HO-4\_sto Combi - cre9

Preset keyswitches: C6-E6

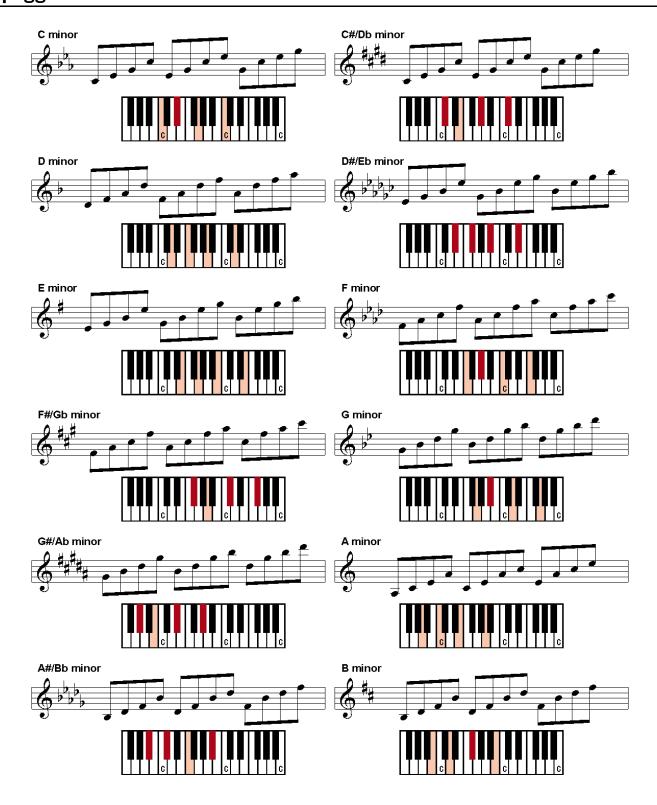
# **Appendix**

In the following, you will find notations and keyboard layout graphics for major and minor arpeggios, as well as a list of playing ranges for the individual arpeggio Patches.

### Arpeggios - major



# Arpeggios - minor



# **Arpeggio ranges**

Staccato major	play range	Staccato minor	play range
01 HO-4_arp-sta_C-ma	C3-C5	01 HO-4_arp-sta_C-mi	C3-C5
02 HO-4_arp-sta_C#-ma	C#3-C#5	02 HO-4_arp-sta_C#-mi	C#3-C#5
03 HO-4_arp-sta_D-ma	D3-D5	03 HO-4_arp-sta_D-mi	D3-D5
04 HO-4_arp-sta_D#-ma	A#2-D#5	04 HO-4_arp-sta_D#-mi	D#3-D#5
05 HO-4_arp-sta_E-ma	B2-E5	05 HO-4_arp-sta_E-mi	E3-E5
06 HO-4_arp-sta_F-ma	A2-C5	06 HO-4_arp-sta_F-mi	C3-F5
07 HO-4_arp-sta_F#-ma	A#2-C#5	07 HO-4_arp-sta_F#-mi	C#3-F#5
08 HO-4_arp-sta_G-ma	B2-D5	08 HO-4_arp-sta_G-mi	A#2-D5
09 HO-4_arp-sta_G#-ma	C3-D#5	09 HO-4_arp-sta_G#-mi	B2-D#5
10 HO-4_arp-sta_A-ma	A2-C#5	10 HO-4_arp-sta_A-mi	A2-C5
11 HO-4_arp-sta_A#-ma	A#2-D5	11 HO-4_arp-sta_A#-mi	A#2-C#5
12 HO-4_arp-sta_B-ma	B2-B4	12 HO-4_arp-sta_B-mi	B2-B4
Staccato major fast	play range	Staccato minor fast	play range
Staccato major rast	play lange	Staccato minor rast	play lalige
01 HO-4_arp-sta+_C-ma	C3–C5	01 HO-4_arp-sta_C-mi+	C3–C5
•			
01 HO-4_arp-sta+_C-ma	C3-C5	01 HO-4_arp-sta_C-mi+	C3-C5
01 HO-4_arp-sta+_C-ma 02 HO-4_arp-sta+_C#-ma	C3-C5 C#3-C#5	01 HO-4_arp-sta_C-mi+ 02 HO-4_arp-sta_C#-mi+	C3–C5 C#3–C#5
01 HO-4_arp-sta+_C-ma 02 HO-4_arp-sta+_C#-ma 03 HO-4_arp-sta+_D-ma	C3–C5 C#3–C#5 D3–D5	01 HO-4_arp-sta_C-mi+ 02 HO-4_arp-sta_C#-mi+ 03 HO-4_arp-sta_D-mi+	C3–C5 C#3–C#5 D3–D5
01 HO-4_arp-sta+_C-ma 02 HO-4_arp-sta+_C#-ma 03 HO-4_arp-sta+_D-ma 04 HO-4_arp-sta+_D#-ma	C3-C5 C#3-C#5 D3-D5 A#2-D#5	01 HO-4_arp-sta_C-mi+ 02 HO-4_arp-sta_C#-mi+ 03 HO-4_arp-sta_D-mi+ 04 HO-4_arp-sta_D#-mi+	C3–C5 C#3–C#5 D3–D5 D#3–D#5
01 HO-4_arp-sta+_C-ma 02 HO-4_arp-sta+_C#-ma 03 HO-4_arp-sta+_D-ma 04 HO-4_arp-sta+_D#-ma 05 HO-4_arp-sta+_E-ma	C3–C5 C#3–C#5 D3–D5 A#2–D#5 B2–E5	01 HO-4_arp-sta_C-mi+ 02 HO-4_arp-sta_C#-mi+ 03 HO-4_arp-sta_D-mi+ 04 HO-4_arp-sta_D#-mi+ 05 HO-4_arp-sta_E-mi+	C3–C5 C#3–C#5 D3–D5 D#3–D#5 E3–E5
01 HO-4_arp-sta+_C-ma 02 HO-4_arp-sta+_C#-ma 03 HO-4_arp-sta+_D-ma 04 HO-4_arp-sta+_D#-ma 05 HO-4_arp-sta+_E-ma 06 HO-4_arp-sta+_F-ma	C3-C5 C#3-C#5 D3-D5 A#2-D#5 B2-E5 A2-C5	01 HO-4_arp-sta_C-mi+ 02 HO-4_arp-sta_C#-mi+ 03 HO-4_arp-sta_D-mi+ 04 HO-4_arp-sta_D#-mi+ 05 HO-4_arp-sta_E-mi+ 06 HO-4_arp-sta_F-mi+	C3–C5 C#3–C#5 D3–D5 D#3–D#5 E3–E5 C3–F5
01 HO-4_arp-sta+_C-ma 02 HO-4_arp-sta+_C#-ma 03 HO-4_arp-sta+_D-ma 04 HO-4_arp-sta+_D#-ma 05 HO-4_arp-sta+_E-ma 06 HO-4_arp-sta+_F-ma 07 HO-4_arp-sta+_F#-ma	C3-C5 C#3-C#5 D3-D5 A#2-D#5 B2-E5 A2-C5 A#2-C#5	01 HO-4_arp-sta_C-mi+ 02 HO-4_arp-sta_C#-mi+ 03 HO-4_arp-sta_D-mi+ 04 HO-4_arp-sta_D#-mi+ 05 HO-4_arp-sta_E-mi+ 06 HO-4_arp-sta_F-mi+ 07 HO-4_arp-sta_F#-mi+	C3–C5 C#3–C#5 D3–D5 D#3–D#5 E3–E5 C3–F5 C#3–F#5
01 HO-4_arp-sta+_C-ma 02 HO-4_arp-sta+_C#-ma 03 HO-4_arp-sta+_D-ma 04 HO-4_arp-sta+_E-ma 05 HO-4_arp-sta+_F-ma 07 HO-4_arp-sta+_F#-ma 08 HO-4_arp-sta+_G-ma	C3-C5 C#3-C#5 D3-D5 A#2-D#5 B2-E5 A2-C5 A#2-C#5 B2-D5	01 HO-4_arp-sta_C-mi+ 02 HO-4_arp-sta_C#-mi+ 03 HO-4_arp-sta_D-mi+ 04 HO-4_arp-sta_D#-mi+ 05 HO-4_arp-sta_E-mi+ 06 HO-4_arp-sta_F-mi+ 07 HO-4_arp-sta_F#-mi+ 08 HO-4_arp-sta_G-mi+	C3–C5 C#3–C#5 D3–D5 D#3–D#5 E3–E5 C3–F5 C#3–F#5 A#2–D5
01 HO-4_arp-sta+_C-ma 02 HO-4_arp-sta+_C#-ma 03 HO-4_arp-sta+_D-ma 04 HO-4_arp-sta+_E-ma 05 HO-4_arp-sta+_F-ma 07 HO-4_arp-sta+_F#-ma 08 HO-4_arp-sta+_G-ma 09 HO-4_arp-sta+_G#-ma	C3-C5 C#3-C#5 D3-D5 A#2-D#5 B2-E5 A2-C5 A#2-C#5 B2-D5 C3-D#5	01 HO-4_arp-sta_C-mi+ 02 HO-4_arp-sta_C#-mi+ 03 HO-4_arp-sta_D-mi+ 04 HO-4_arp-sta_D#-mi+ 05 HO-4_arp-sta_E-mi+ 06 HO-4_arp-sta_F-mi+ 07 HO-4_arp-sta_F#-mi+ 08 HO-4_arp-sta_G-mi+ 09 HO-4_arp-sta_G#-mi+	C3–C5 C#3–C#5 D3–D5 D#3–D#5 E3–E5 C3–F5 C#3–F#5 A#2–D5 B2–D#5